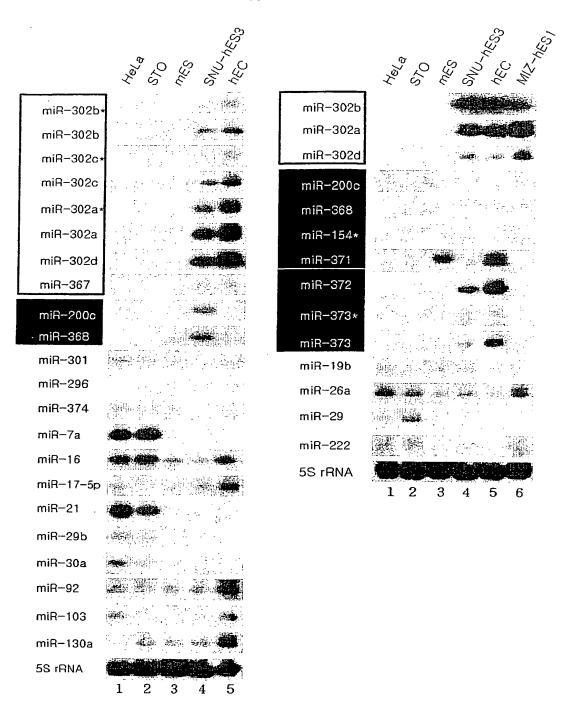
FIG. 1

S CUUCA UN LIG IV GUGAC ACU COUN COUNT ACU CACAGAGAG COUNT COUNT ACU CACAGAGAG COUNT COUNT ACU CACAGAGAG COUNT COUNT COUNT COUNT COUNT COUNT COUNT CACAGAGAGA CACAGAGAGA CACAGAGAGA CACAGAGAGA ALMAGCOUNT CACAGAGAGA ALMAGCOUNT CACAGAGAGA ALMAGCOUNT CACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG	LEGIU UG 1 MIR-370 5' AGACAG GCAGGU C CUC GCAG UAC 1 ACAGC ALICA AC A MIRA AC A A MIRA AC A GU U U ACAGC ALICA AC A A MIRA AC A A A A A A A A A A A A A A A A A	AA A C U A C OGEN CONTRACTOR CONTRACT	CU GU G USO CU GUSTA CUE GUSTACUCAAA GUGG GGCACUUUC GOU U G GAAAA GUGG GGCACUUUC GOU U G UGAAAAA GUGG GGCACUUUC GOU U G UGAAAAA GU GC CAU <u>KSUKAGUUUU WACC CCGUGAAAG</u> UGG C C U UC G CAUKSUKAGUUUU WACC CCGUGAAAG UGG C C U UC G C C U UC G C C U UC C C C	C UUGAA CO G G A CAUGU G G GUCAAAUGU G AGCACU UUCU 1 AGGUU AGGU A AGGACU UUCU 1 AGUU AGGU A GAGUULAGA C UGGUGA AAGG C C GAGUULAGA C UGGUGA AAGG C C G GAGUULAGA C UGGUGA AAGG C C C C G GAGUULAGA C UGGUGA AAGG C C C C C G GAGUULAGA C UGGUGA C G G G C C C C C G G G G C C C G G G G C C C C C C C G G G G C	u u ggu miR-373*s· ac egga u <u>acuc ararau eggececuuuce</u> ba cuc us c miR-373 us ccc <u>usuese uuwa cuucsusaag</u> es u - age ucaugu	CA C C CUCAAUCCU UGUNAU ANGGUNA \ MIR-296 5' CCCUUC GAGGGGC CC CUCAAAUCCU UUG \ URGAAU U MIR-296 GGGAAG. CUCUCGG GG GGGUUGGGA GAC U UGGUAU	n 3 3 3 mnn
GG CUUCA UL GUUGGGU GCUCC <u>ACU AAGAU</u> UAACCUA UGAGG UGA ULGUA AG A —— UL	CC UG IN CGGGGGGLAC LIGGIA UG 1. CGGGAU CCUU CU AACALIGGGGGLAC LIGGIA UG 1. CGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	C U U U GAAA CEUSCA GUACUMSCUUU) GGU GUGG UMUGUACOU CEUGAAUGAAC A U U AAAU	C UC U C UCAGGGGCCUUG C GA AGGGGGCC CC UACUU AACAUGGGGGCCCUUGG GG GLICAG UIGULACCUINGGUGAAU ACA AAA ACU U U U U	UA C UUGAA UGGCU ACAG CCAUINCICIUIAGUIA UGCAA IKCUG U ACCGA UGUU GGU <u>AGGIUSGUNACGALUU ACGUU A</u> GGU A AU A UAAAU	CU — A CAGUGGU GGG GC U GGU CGGGGGGC CGUC UUACCC GCAGUGGU GGG GC U CGGCGCGG GGGG GG	U G UN U UGUUNA NUCCU CUAUGUUN AAACIAUCA U <u>LUII CACCII AAGGA GALACA</u> AAU C <u>UA</u>	
~	ž,	ů,	in	ໝ໌	O _	ù	:
miR-302b* miR-302b	miR-302c* miR-302c	miR-302a* miR-302a	miR-302d	miR-367	miR-200c	miR-368	* U

FIG. 2



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GTGCNNCNA-NNTTNGNGNGT

3/6

FIG. 3

<u>GGGGTACCTGCTG</u>TG-TGAAACAAAGTAAGTGCTTCCATGTTTCAGTGGAGG ---ct<u>naaacgtggatgtactttg</u>caaactaaagaag<u>taagtgcttc</u>catgttttgg CA<u>BCTTTAACATGGAAGTGCTTTCT</u>GTG--ACTTTAAAAGTAAGTGCTTCCATGTTTAGTAGGA---ACTTTAACATGGAGGCACTTGCTGTGACATGACAAAAATAAGTGCTTCCATGTTTGAGTGTGG TAAGIGCTICCATGTTINNGINN A miR-302b*~302b~302c*~302c~302a*~302a~302d~367 (chromosome 4) miR-302b* and 302b Template miR-302c* and 302c miR-302a* and 302a miR-*302d* concensus

B miR-371~372~373*~373 (chromosome 19)

TGTGGCACTCAAACTGTGGGGGCACTTTCTGCTCTCTG-GT--GAAAGTGCCGCCATCTTTTGAGTGTTTTA TGTGGGCCTCAAA-TGTGGAGCACTATTCTGATGTCCA-AGTGGAAAGTGCTGCGA-CATTTGAGCGTCA <u>TTTCC</u>TTTTTGTCTGTACTGGGAAGTGCTTCGA-TTTTGGGGGTGTCC * * * * * * -GGGAT<u>ACTCAAAATGGGGGGCGC</u> miR-373* and 373 Template miR-372 miR-37

concensus

FIG. 4

miR-302b*~302b~302c*~302c ~302a*~302a~302d~367 miR-371~372~373*~373 Oct4 miR-30a~30a* let-7a-1 GAPDH

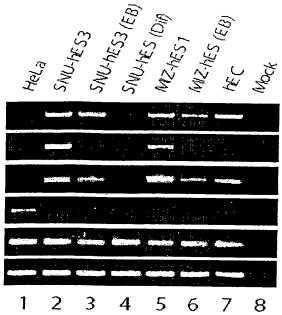
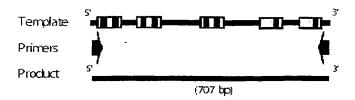
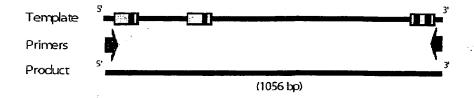


FIG. 5

a) miR-302b*~302b~302c*~302a*~302a~302d~367 (chromosome 4)



b) miR-371~372~373*~373 (chromosome 19)



c) let-7a-1

Template

Primers

Product

d) miR-30a~30a*

Template Primers Product

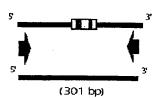


FIG. 6

A WIZ-NEST NNSC
B

A: miR-302b*~302b~302c*~302c~302a*~302a~302d~367 B: miR-371~372~373*~373 C: human 8-actin